MAGTF OC

Common Aviation Command and Control System (CAC2S)

Industry Day Brief

MAGTF OC

CAC2S System Mission & Description

System Mission:

To provide the ACE Commander with the necessary hardware, software, equipment, and facilities to effectively command, coordinate, and control MAGTF air operations in service, Naval, Joint, and Joint/Multinational operations.

System Description:

- CAC2S will functionally replace all of the dissimilar systems currently utilized by the MACCS
- Consolidates MACCS functions on a common C2 platform
- Provide a complete and coordinated modernization effort for support to OMFTS
- Host for Marine Corps CEC and C2 node for CLAWS
- Open architecture design that will be DII COE compliant where applicable (real-time functions)
- Vastly reduced lift and logistics requirements

Project Officers: LtCol Speights, Major Evans, and Major Emo

ACAT: III

MDA: BGen Fiegley

Lead Service: USMC

Current Phase: Program Definition and Risk Reduction

Marine Aviation C2 Capability

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Existing MACCS Agencies

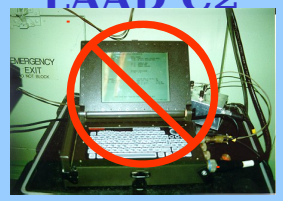
Existing and Future Capabilities

TAOC

TACC

DASC

LAAD C2



MATCALS

TBMCS

SENSORS

TADILS

AFATDS

MSBL

GCCS

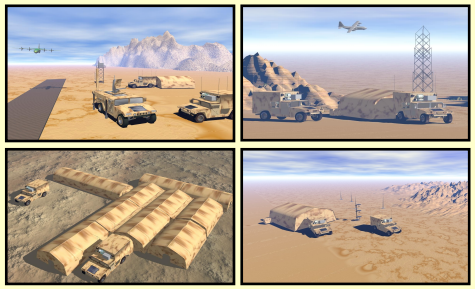
GBS

CEC

COMMUNICATIONS

DII COE

CAC2S



PROCESSING & DISPLAY

COMMUNICATIONS

SENSORS/WEAPONS INTERFACES

FACILITY INFRASTRUCTURE

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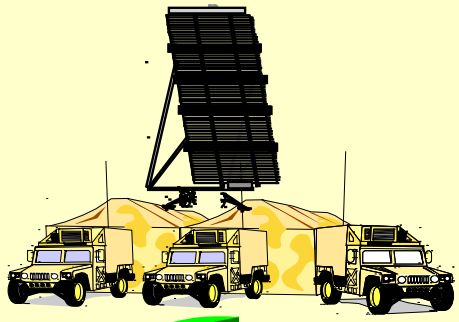
CAC2S Increments

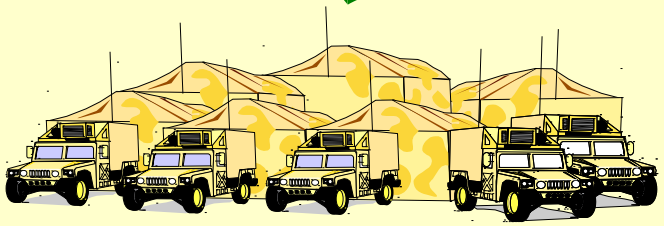
Increment I - Hardware and software replacement for the core MACCS requirements and the Tactical Air Operations Center (TAOC) functionality

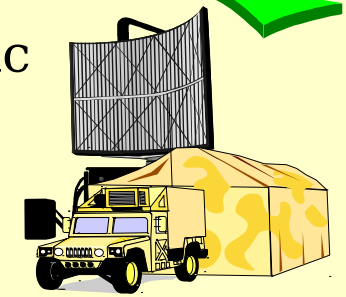
Increment II - Tactical Air Command Center (TACC) functionality and the Direct Air Support Center (DASC) functionality

Increment III - Marine Air Traffic Control (ATC) C2 Integration

Increment IV - MAGTF OC functionality







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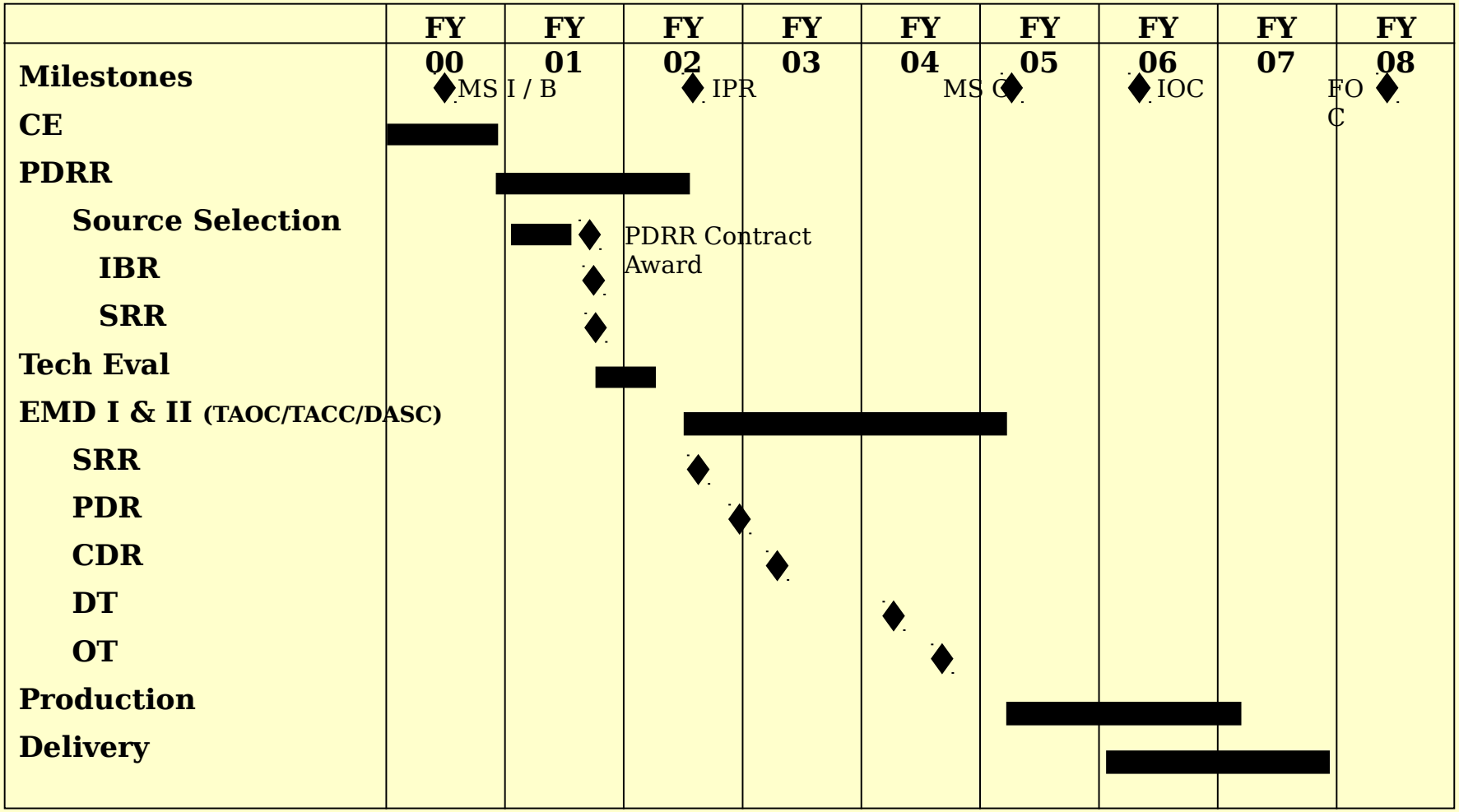
CAC2S Macro Program Schedule



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Raytheon Team

Raytheon

- **N&MIS, C3I, RTSC**
- **Program Management**
- **Systems Engineering**
- **Systems Integration**
- **Toc Leadership**
- **Infrastructure**
- **SIAP (SSDS and CEC Components)**
- **S/W Development**

KONGSBERG
DEFENCE & AEROSPACE

- **Weapon Control**

Gallium

- **Human System Interface**

General Dynamics
Decision Systems

- **Communications**
- **S/W Development**
- **Technology Insertion**
- **Airspace Management**
- **Multi-level Security**
- **Infrastructure**

Sensis CORPORATION

- **Sensor Integration**

DHS SYSTEMS LLC

- **DRASH Tent**

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PDRR Technical Goals

- Core System defined (functional baseline)
- Contractor's (Raytheon's) development capability shown to be achievable through demonstrations
  - Expandable, modular and scalable hardware and software architecture
  - Track Data Engine capable of fusing track information between multiple real-time systems as well as real-time and non-real-time systems
  - Functional layout of the human system interface for system operators
  - A communications system architecture and bandwidth management design for the nodal communications
- Contractor developed cost model for core and increments
- Software Development Plan

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CAC2S Take-Aways

- CAC2S will be developed/fielded in increments
- CAC2S is the host system for USMC CEC and the C2 node for CLAWS
- Raytheon Naval & Maritime Information Systems is the Prime Contractor
- CAC2S is very “Naval” in character - SSDS Mk II, CDLMS, etc.
- System component commonality has/will lead to leverage opportunities

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Questions